

C L A I M S

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5 1. An immunoassay reagent for use in the quantitative determination of a target antigen or antibody present in a sample, said reagent containing:

(a) an insoluble carrier which carries an enzyme and an antibody or antigen corresponding to said antigen or antibody;

10 (b) an enzyme inhibitor for inhibiting the activity of said enzyme; and

(c) a substrate with which the enzyme reacts.

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15 2. The immunoassay reagent as recited in claim 1, characterized as comprising a first reagent which contains said insoluble carrier and a second reagent which contains said enzyme inhibitor and said substrate.

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3. An immunoassay reagent for use in the quantitative determination of a target antigen or antibody present in a sample, said reagent containing:

20 (a) an insoluble carrier which carries an enzyme inhibitor and an antibody or antigen corresponding to said antigen or antibody;

(b) an enzyme whose activity is inhibited by said enzyme inhibitor; and

(c) a substrate with which said enzyme reacts.

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4. The immunoassay reagent as recited in claim 3,
characterized as comprising a first reagent containing said
insoluble carrier, a second reagent containing said enzyme
and a third reagent containing said substrate.

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5. The immunoassay reagent as recited in any one of
claims 1 - 4, characterized in that said insoluble carrier
further contains a magnetic or magnetizable material.

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10 6. The immunoassay reagent as recited in any one of
claims 1 - 5, characterized as containing plural different
combinations in type of said antibody or antigen, enzyme and
substrate.

7. An immunoassay reagent for use in the quantitative
determination of a target antigen or antibody present in a
sample, said reagent containing:

15 (a) an antibody or antigen chemically linked to an
enzyme inhibitor and corresponding to said antigen or
antibody;

(b) an enzyme whose activity is inhibited by said
enzyme inhibitor; and

20 (c) a substrate with which said enzyme reacts.

8. The immunoassay reagent as recited in claim 7,
characterized as comprising a first reagent containing said
antibody or antigen chemically linked to the enzyme
inhibitor, a second reagent containing said enzyme and a
25 third reagent containing said substrate.

sub ar } 9. The immunoassay reagent as recited in any one of claims 1 - 8, wherein said enzyme inhibitor is an antibody against said enzyme.

10. The immunoassay reagent as recited in claim 9,
5 wherein said antibody against the enzyme is a monoclonal antibody.

sub B2 } 11. An immunoassay method for quantitatively
10 determining a target antigen or antibody present in a sample, characterized by mixing the immunoassay reagent as recited in any one of claims 1 - 10 with the sample to thereby cause an enzyme reaction and an antigen-antibody reaction in the form of an agglutination reaction, and measuring the degrees of the reactions occurred.